

ISLAND CREEK COAL COMPANY LEASE 60,000 ACRES ± WELL NO. WV 512819

LATITUDE 37°52'30"

47-045-0167-P

N 53°21' W
8044.32'

47-045-1269

JACKS FORK

HEARTLAND FORESTLAND FUND
24,418.08 AC.±
(SURFACE)

EXISTING WELL
A.P.I. #47-045-1516
STATE PLANE COORDINATES
SOUTH ZONE (NAD '27)

HEARTLAND FORESTLAND FUND
24,418.08 AC.±
(SURFACE)

BOTTOM HOLE
WELL NO.
WV 512819

N. 305,586
E. 1,686,568

LAT=(N) 37.83419
LONG=(W) 82.08531

BOTTOM HOLE
WELL NO. WV 512819
STATE PLANE COORDINATES
SOUTH ZONE (NAD '27)

N. 308,658
E. 1,681,386

LAT=(N) 37.84246
LONG=(W) 82.10338

UTM (NAD'83)
N: 4,188,921
E: 402,931

NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 03/04/10.
3. LEASE BOUNDARY DOES NOT APPEAR WITHIN THE SCOPE OF THIS PLAT.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN JULY, 2010.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

WELL NO. WV 512819
STATE PLANE COORDINATES
SOUTH ZONE (NAD'27)

N. 305,604
E. 1,686,550

LAT=(N) 37.83424
LONG=(W) 82.08537

UTM (NAD'83)
N: 4,187,990
E: 404,505

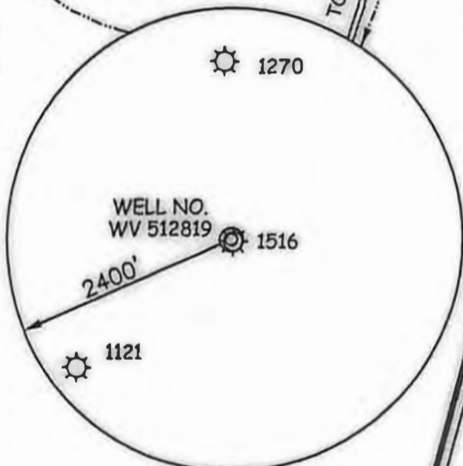
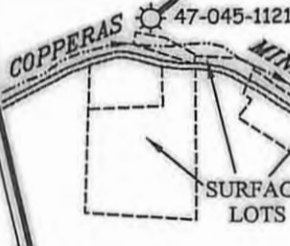
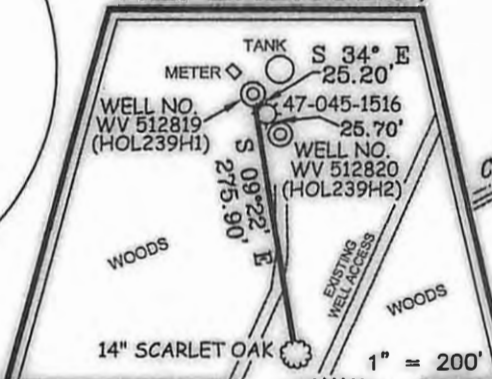
INEZ DENISE QUEEN
94.80 AC.±
(SURFACE)

WELL NO.
WV 512819

HEARTLAND FORESTLAND FUND
24,418.08 AC.±
(SURFACE)

S 51°27' W
2121.27'

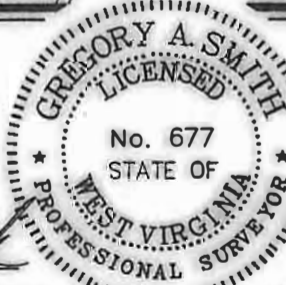
REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE OCTOBER 14, 20 10

OPERATORS WELL NO. WV 512819

API WELL NO. 47-045-02406H
STATE CANCELLED COUNTY LOGAN PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3890P512819(289-75)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1,000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1,375' WATERSHED COPPERAS MINE FORK OF ISLAND CREEK

DISTRICT ISLAND CREEK COUNTY LOGAN QUADRANGLE HOLDEN 7.5'

SURFACE OWNER HEARTWOOD FORESTLAND FUND ACREAGE 24,418.08±

ROYALTY OWNER ISLAND CREEK CORPORATION LEASE ACREAGE 60,000±

PROPOSED WORK: LEASE NO. 080662

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD

FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION LOWER HURON

ESTIMATED DEPTH 4,460' (TOTAL VERTICAL DEPTH)

WELL OPERATOR EQT PRODUCTION COMPANY
ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302

DESIGNATED AGENT REX C. RAY
ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302

07/26/2013